U.S. DEPARTMENT OF ENERGY | Nuclear Energy

Nuclear Science User Facilities

Experiment Awards And Status

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Program Administrator

NSUF Nuclear Science User Facilities

NSUF Semi Annual Review
Germantown, MD
March, 2016

INL/MIS-16-37996

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NSUF RTE Overview

NSUF Nuclear Science User Facilities

Rapid Turnaround Experiment solicitations are on a 4 month cycle:

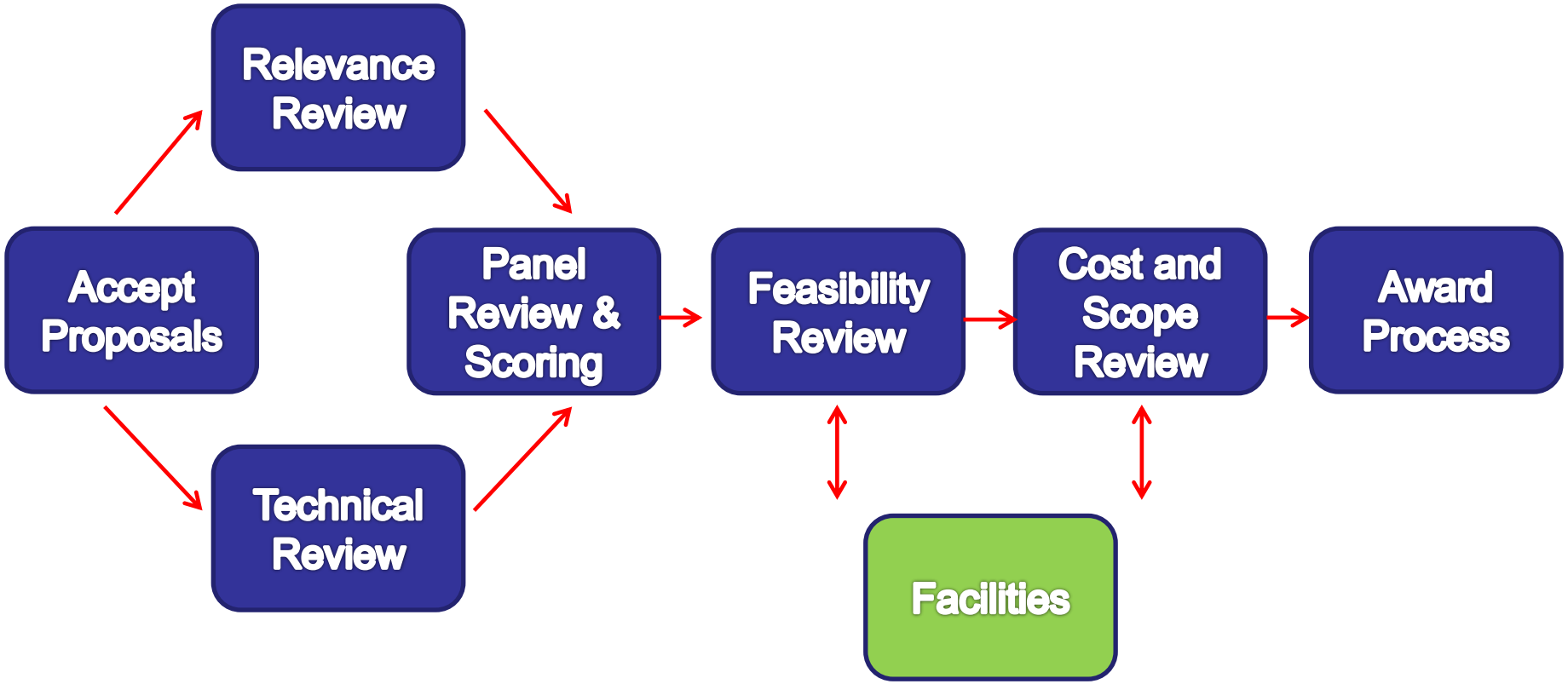
- FY 1st call May - September
- FY 2nd call from September - January
- FY 3rd call from January - May

NSUF RTE Overview

Rapid Turnaround Experiments (RTEs) offer researchers the opportunity to perform quick analysis of a small number of samples. Irradiation experiments that require use of the ATR, MIT, or HFIR reactors do not qualify as rapid turnaround experiments.

- All rapid turnaround experiment proposals are reviewed for feasibility, program relevance and scientific merit.
- NSUF makes every effort to match reviewers' expertise to the proposal's research areas. All reviewers are in the NEUP review pool. Proposals are scored on scientific merit (50%), technical feasibility (30%), and capability of the group (20%).
- The NSUF chief scientist and TIO of the LWRS program perform the relevance review. Proposals are also reviewed for feasibility at INL and partner facilities.
- A principal investigator and affiliated team members (co PI's working on the same team or research area) may only submit a total of two proposals per call.

RTE Solicitation Review Process



RTE Guidelines

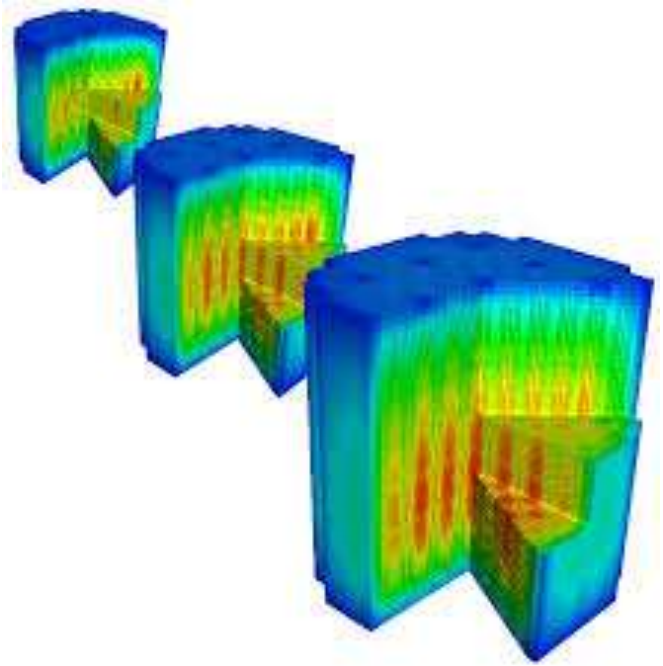
Guidelines for the use of CAES MaCS

- Award for use of the MaCS laboratory is limited to 6 months in duration
- Awarded proposals are granted access to the lab for a single researcher per proposal
- FIB time is limited to 6 days in a 6 month period (no more than 2 consecutive days at a time). Maximum of 4 days in a month
- All other instruments are limited to a maximum of 10 days (combined, not per instrument) in a 6 month period with no more than 2 consecutive days at a time

RTE Guidelines

Guidelines for the use of other partners

- Time limits for instrument use are similar to the CAES MaCS
- MRCAT proposals may not exceed five days of beam time
- IVEM beam time proposals should be consistent with typical facility availability (3 days)
- High-performance computing proposals cannot exceed 1 million core hours per proposal



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Submitted Proposals FY 2015

NSUF Nuclear Science User Facilities

47 total proposals were submitted in FY 15

Argonne National Laboratory	**1**
Australian Nuclear Science and Technology Organization	**2**
Boise State University	**7**
Idaho National Laboratory	**8**
Los Alamos National Laboratory	**1**
North Carolina State University	**3**
Oak Ridge National Laboratory	**4**
University of California - Berkeley	**2**
University of California - Santa Barbara	**2**
University of Florida	**3**
University of Idaho	**1**
University of Illinois	**3**
University of Manchester	**1**
University of Michigan	**2**
University of Oxford	**2**
University of Tennessee	**1**
University of Wisconsin - Madison	**1**
Virginia Commonwealth University	**3**

NSUF Summer 2015 RTE Call Awards

Total awards by Organization for FY 15

Argonne National Laboratory	**1**
Australian Nuclear Science and Technology Organization	**1**
Boise State University	**4**
Idaho National Laboratory	**5**
Los Alamos National Laboratory	**2**
Oak Ridge National Laboratory	**2**
University California-Berkeley	**1**
University of California- Santa Barbara	**2**
University of Florida	**3**
University of Idaho	**1**
University of Illinois	**2**
University of Manchester	**1**
University of Michigan	**1**
University of Oxford	**1**
University of Tennessee	**1**
University of Wisconsin	**1**
Virginia Commonwealth University	**1**
Grand Total	**30**

FY 16 3rd RTE Call

Next call closes on May 31, 2016

FY 15 NSUF CINR Summary

FY 2015 NSUF CINR Summary

- Letters of Intent- 41
- Pre-applications- 31
- Full Applications- 17
- Awards- 5

FY 15 NSUF CINR Summary

FY 2015 NSUF CINR Final Application Summary

Institution	Count
Argonne National Laboratory	1
Boise State University	1
Brookhaven National Laboratory	1
Colorado School of Mines	1
Idaho National Laboratory	3
Illinois Institute of Technology	1
Lawrence Livermore National Laboratory	2
Massachusetts Institute of Technology	1
University of Illinois, Urbana Champaign	2
University of Tennessee at Knoxville	1
Virginia Commonwealth University	2
Virginia Polytechnic Institute and State University	1
Grand Total	**17**

FY 16 NSUF CINR Summary

FY 2016 NSUF CINR Summary

- **Letters of Intent- 80**
- **Pre-applications- 67**
- **Invited Full Applications- 35**
- **Full Applications-32**
- **Awards- ?**

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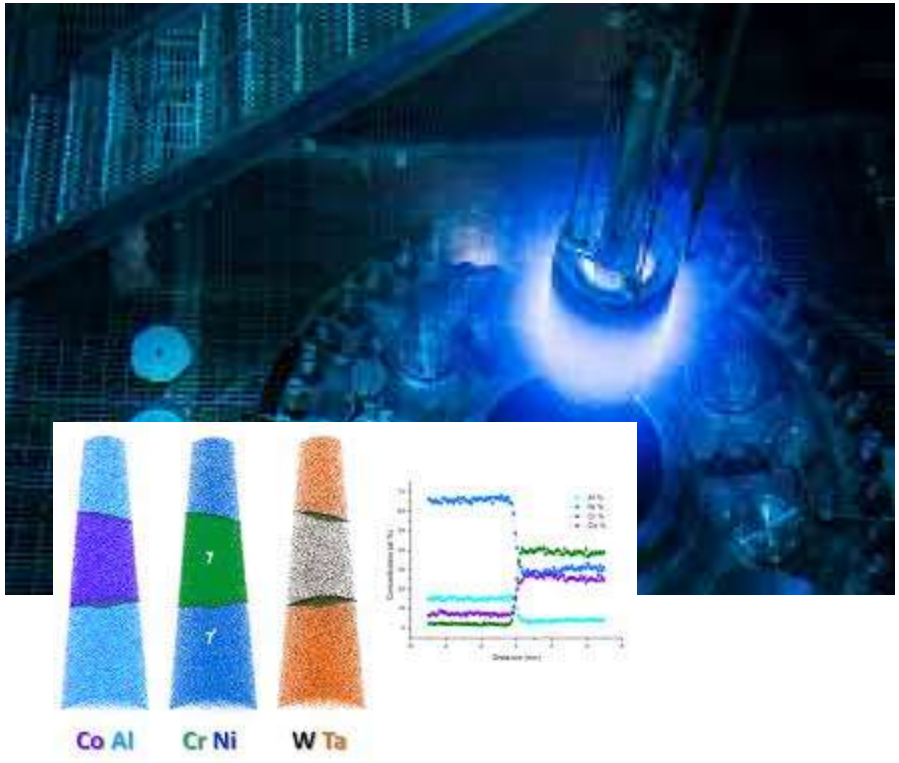
FY 16 NSUF CINR Invited for Full Application

NSUF Nuclear Science User Facilities



Organization	Count
Boise State University	2
Colorado School of Mines	1
Electric Power Research Institute	1
GE Hitachi Nuclear Energy	1
Idaho National Laboratory	4
Idaho State University	1
Massachusetts Institute of Technology	3
Oak Ridge National Laboratory	10
Oregon State University	2
Pacific Northwest National Laboratory	2
Texas A&M University	1
University of Florida	1
University of Michigan	3
University of Nevada, Reno	1
Utah State University	1
Vanderbilt University	1
Grand Total	35

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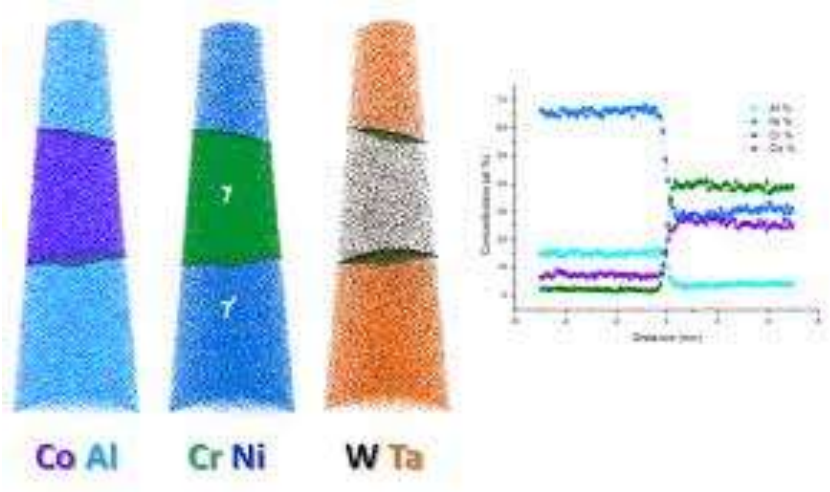
FY 16 NSUF CINR Full Applications

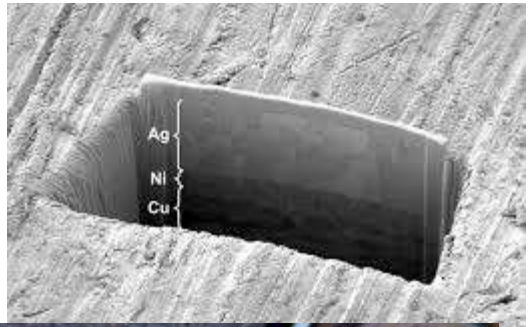
NSUF Nuclear Science User Facilities



Institution	Count of Institution
Boise State University	2
Colorado School of Mines	1
Electric Power Research Institute	1
GE Hitachi Nuclear Energy	1
Idaho National Laboratory	3
Idaho State University	1
Massachusetts Institute of Technology	3
Oak Ridge National Laboratory	8
Oregon State University	2
Pacific Northwest National Laboratory	2
Texas A&M University	1
University of Florida	1
University of Michigan	3
University of Nevada, Reno	1
Utah State University	1
Vanderbilt University	1
Grand Total	32

FY 16 NSUF CINR Primary Facility for Full Application

Facility	Primary Facility Count
ATR	6
HIFR	2
INL PIE	4
LAMDA	4
MIBL	5
MITR	2
MRCAT	3
ORNL Gamma	1
PNNL	1
TREAT	2
Westinghouse	1
Wisconsin	1
Grand Total	32



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